

SECTION 02230

ROAD CONSTRUCTION

PART 1: GENERAL

1.01 SCOPE

- A. This Section includes impacted material access ramps, access corridors, borrow area haul road, and other roads associated with this Contract.

1.02 RELATED SECTIONS AND PLANS

- A. Section 02100 - Surveying
- B. Section 02110 - Clearing, Grubbing, and Stripping
- C. Section 02200 - Earthwork
- D. Section 02270 - Erosion and Sediment Control
- E. Section 02714 - Geotextiles
- F. Part 6 - Statement of Work
- G. Part 8 - Environmental Health and Safety, and Training Requirements
- H. Part 9 - Quality Assurance Requirements

1.03 REFERENCES

- A. Latest version of Ohio Department of Transportation Construction and Material Specifications (Ohio DOT Specifications).
- B. *"Off-Site Borrow Materials- Geotechnical Evaluation Report"* (Revision 0) prepared by Parsons, June 1996. This report presents geotechnical data for potential off-site borrow sources for OSDF construction materials, including fine and coarse concrete aggregates, pea gravel, and riprap.

1.04 SUBMITTALS

- A. For each source of subbase material and base material, submit the following to the Construction Manager for review within 45 calendar days from Notice to Proceed:
 - 1. the source of the materials along with written certification from the supplier that the material meets the material requirements of this Section. Certification shall include test results on subbase and base material demonstrating that material meets the requirements of items from the Ohio DOT Specification given in this Section; and
 - 2. a 50-pound representative sample of the proposed material.
- B. Provide a list of equipment and description of construction methods in the Earthwork Work Plan specified in Section 02200.

1.05 HEALTH AND SAFETY REQUIREMENTS

- A. Environmental, health and safety, and other training requirements shall be as specified in Part 8 of the Contract Documents.

PART 2: PRODUCTS

2.01 MATERIALS

- A. Furnish subbase material consisting of homogenous crushed rock or angular soil which meets the requirements of Item 310.02 and 703.04(2) of the Ohio DOT Specifications.
- B. Furnish base material consisting of crushed rock or angular soil which meets the requirements of Item 304.02 and 703.04 of the Ohio DOT Specifications.
- C. Furnish a separator geotextile meeting the requirements of Section 02714.
- D. Furnish compacted fill or clayey rockfill material meeting the requirements of Section 02200.

2.02 EQUIPMENT

- A. Furnish equipment necessary to construct roads in accordance with the requirements of this Section.

PART 3: EXECUTION

3.01 GENERAL

- A. Dust control during the road construction activities shall be in accordance with Part 6 of the Contract documents.
- B. Install erosion and sediment controls as necessary in accordance with Section 02270.
- C. Perform clearing, grubbing, and stripping to the limits indicated on the Construction Drawings and in accordance with Section 02110 prior to any earthwork activity.

3.02 SUBGRADE PREPARATION

- A. Prepare subgrade for road construction in accordance with Section 02200.

3.03 GEOTEXTILE PLACEMENT

- A. Install the geotextile separator in accordance with the requirements of Section 02714.

3.04 SUBBASE AGGREGATE

- A. Construct the subbase aggregate to the thicknesses, grades, and limits indicated on the Construction Drawings and as required for the borrow area haul road.
- B. Place the subbase material on top of the geotextile separator by end dumping onto previously placed subbase aggregate and carefully spreading using a track dozer. Do not operate equipment directly on the geotextile.
- C. Tailgate spreading of subbase aggregate over the geotextile may be used for borrow area haul road. Spread subbase aggregate for the impacted material access ramp in accordance with Section 02714.
- D. Place and compact the subbase layer in accordance with the requirements of Item 310.03 of the Ohio DOT Specifications.

3.05 BASE AGGREGATE

- A. Construct the base layer to the thicknesses, grades, and limits indicated on the Construction Drawings and as required for the borrow area haul road.

- B. Place the base layer in accordance with requirements of Item 304.03 of the Ohio DOT Specifications.
- C. Compact the base layer in accordance with the requirements of Item 304.04 of the Ohio DOT Specifications.

3.06 CONSTRUCTION QUALITY REQUIREMENTS

- A. CQC Consultant will perform conformance testing on materials to establish compliance with this Section. Conformance testing to be performed and testing frequencies are given in the Construction Quality Assurance (CQA) Plan, referenced in Part 9 of the Contract Documents.
- B. CQC Consultant will perform performance testing on compacted road courses to establish compliance with this Section. Performance test requirements and test frequencies are given in the CQA Plan.

3.07 SURVEY CONTROL

- A. Survey the road locations and elevations in accordance with Section 02100 of these Specifications.

[END OF SECTION]